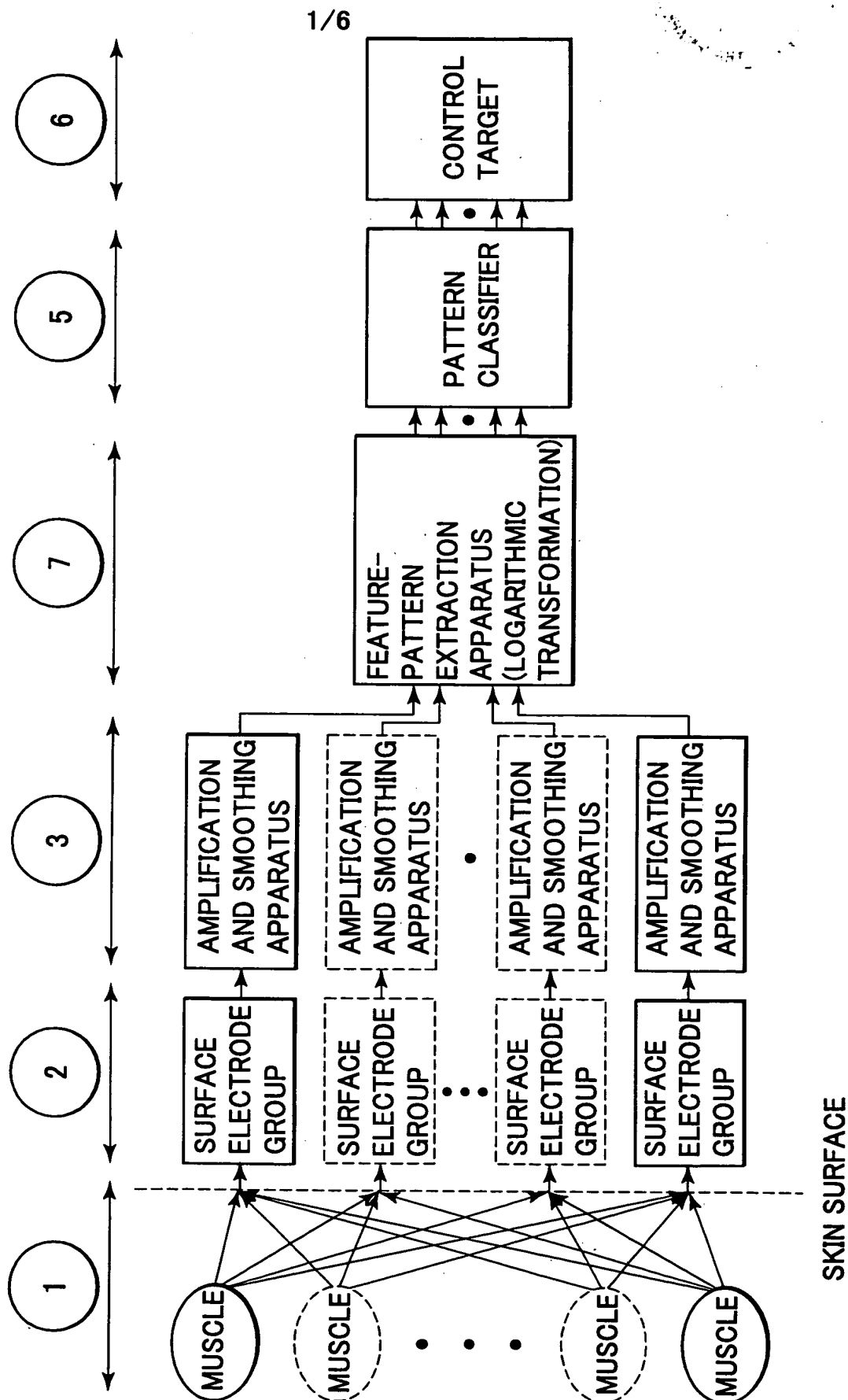


FIG. 1

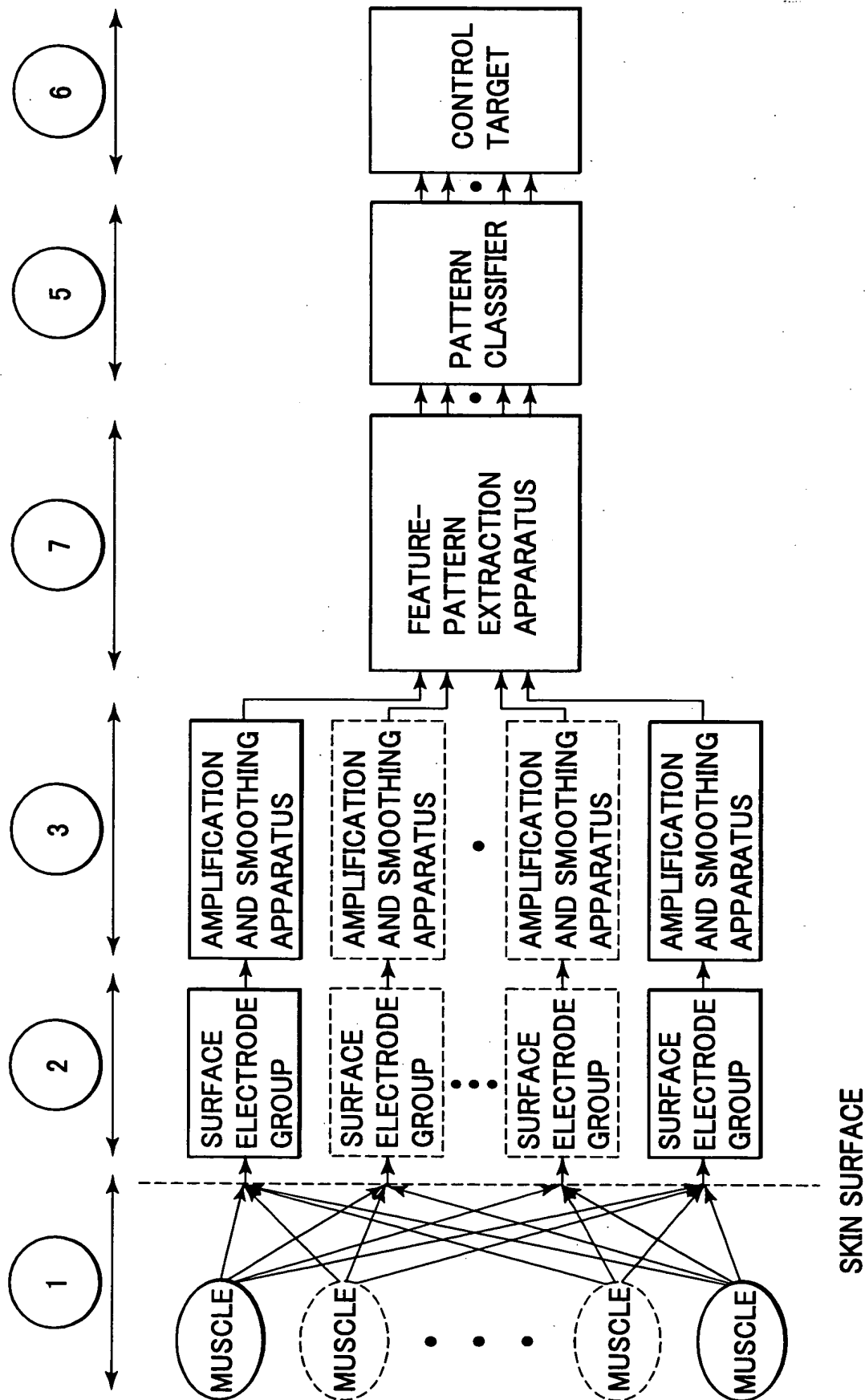


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FIG. 2 (PRIOR ART)

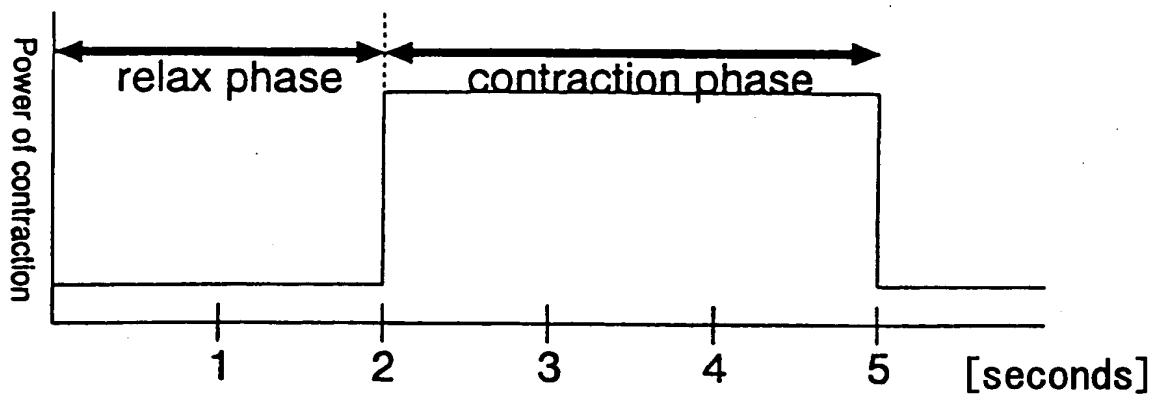


The diagram illustrates the system architecture with the following components and connections:

- Portable PC (17)**: The central processing unit.
- SCSI Interface Card**: Connected to the Portable PC and the SCSI Cable.
- 15 A/D Converter**: Receives signals from the Sensor Box via the SCSI Cable.
- 16 Amplifier**: Receives signals from the A/D Converter.
- 14 Sensor Box**: The primary data source, connected to the A/D Converter and the external sensor assembly.
- 12**: A set of four sensors or electrodes connected to the Sensor Box.
- 11** and **13**: External input/output lines connected to the sensor assembly.
- Power Supply (18)**: Provides power to the system.
- Ground (19)**: Provides a common ground reference for the system.

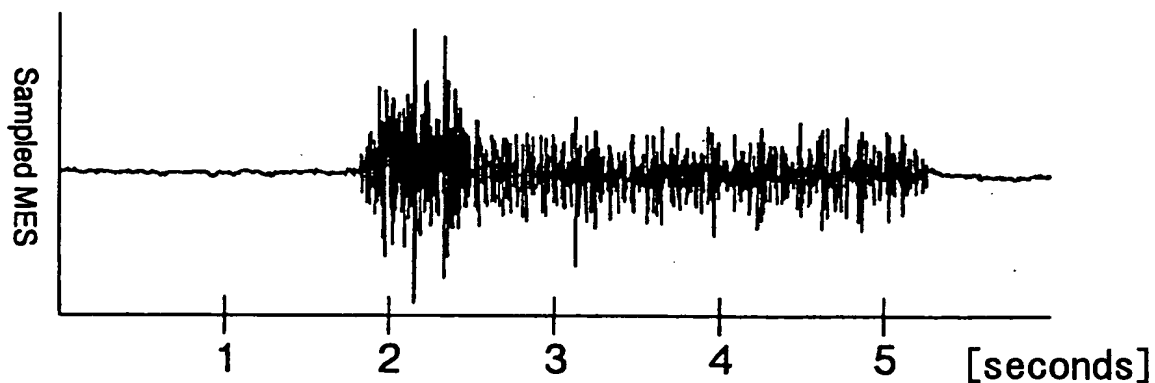
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FIG. 4(a)



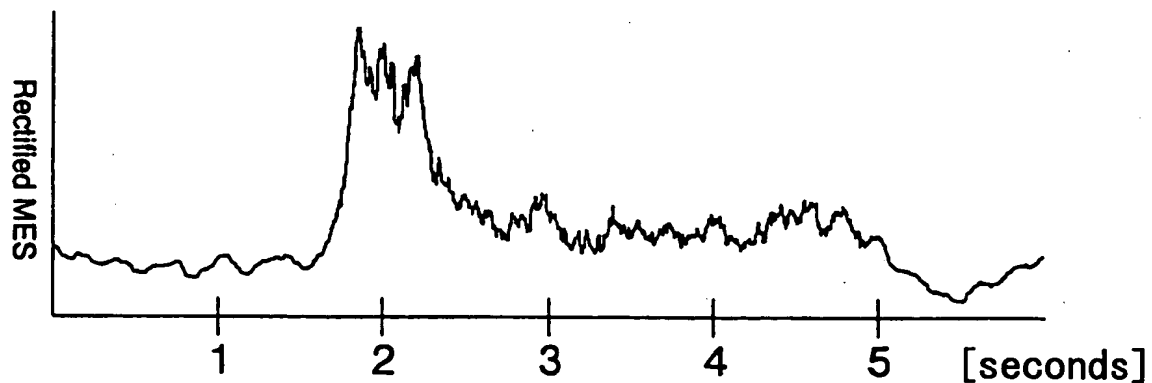
The muscle contraction scheme

FIG. 4(b)



An example of sampled myoelectric signals

FIG. 4(c)

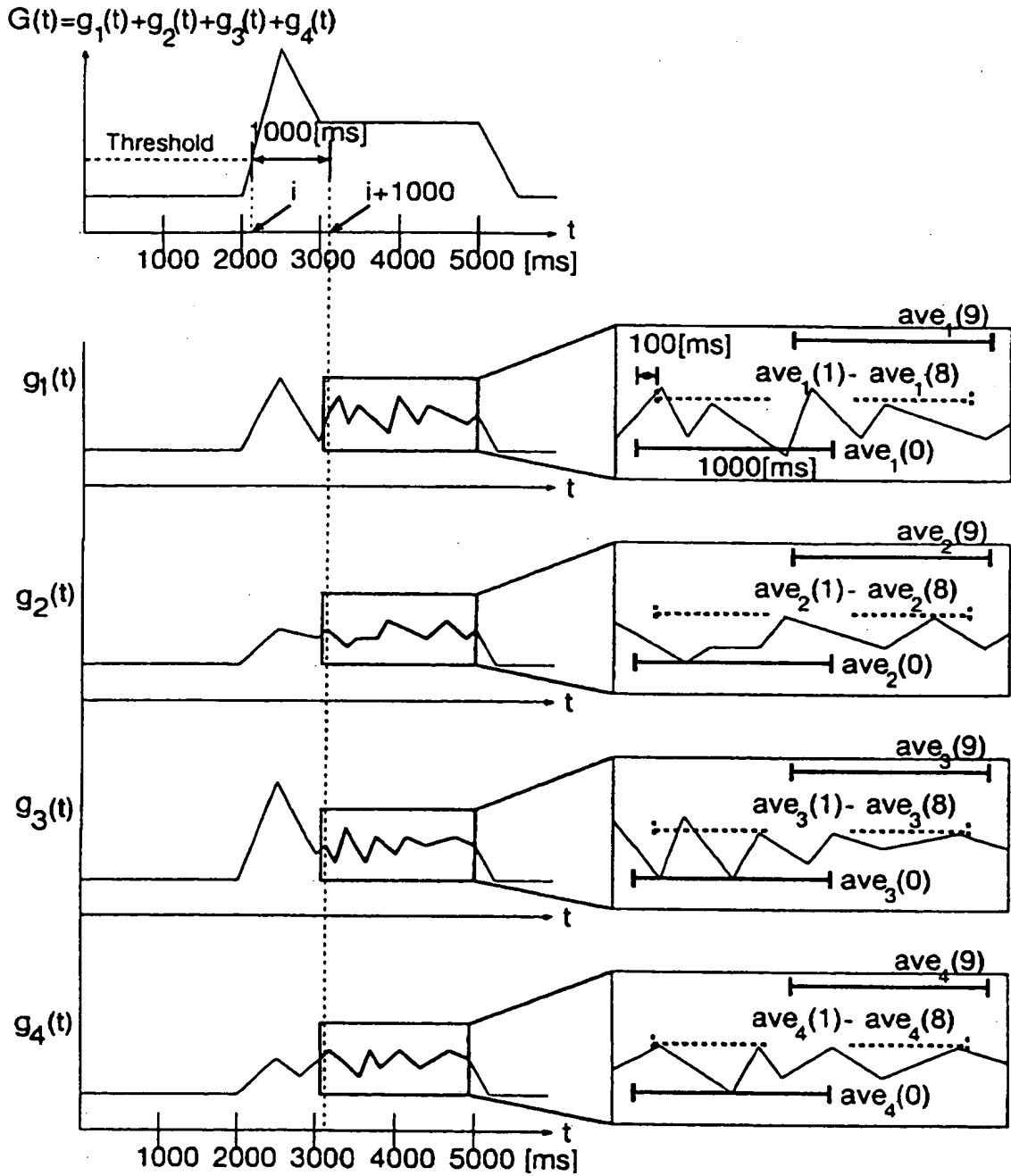


An example of the rectified myoelectric signals

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FIG. 5



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FIG. 6

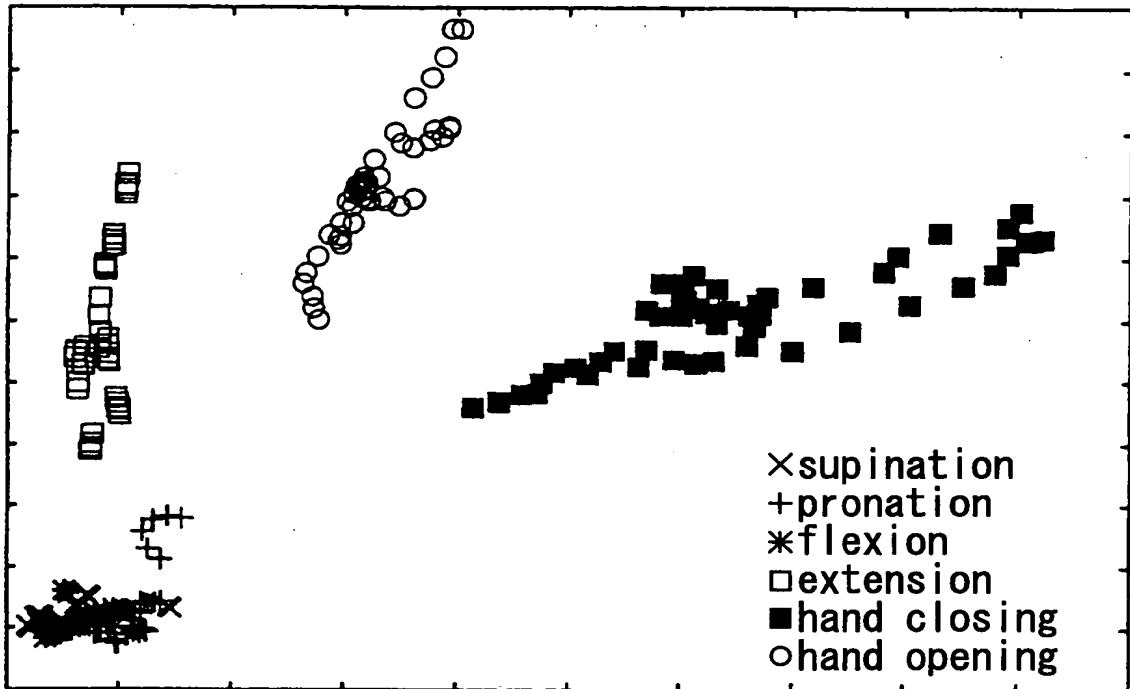
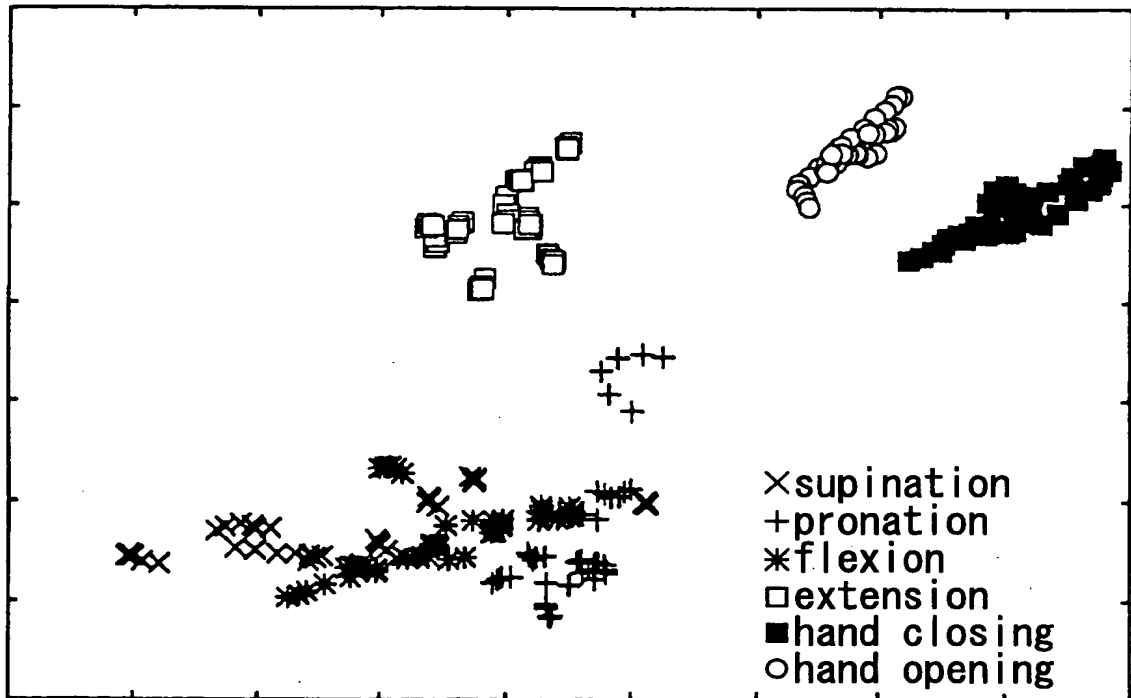


FIG. 7



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